## **PATENT CLAIMS**

- Composition comprising at least one non-crosslinkable organic medium (A) which has a viscosity of less than
   30,000 mPas at a temperature of 120 °C and at least one microgel (B).
  - Composition according to claim 1, wherein the noncrosslinkable organic medium (A) has a viscosity of less than 1,000 mPas at a temperature of 120 °C.
    - 3. Composition according to claim 1, wherein the non-crosslinkable organic medium (A) has a viscosity of less than 200 mPas at a temperature of 120 °C.

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- Composition according to claims 1 to 3, characterized in that the primary particles of the microgel (B) have an approximately spherical geometry.
- 20 5. Composition according to claims 1 or 4, characterized in that the deviation of the diameters of an individual primary particle of the microgel (B), defined as

$$[(d1 - d2) / d2] \times 100,$$

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- wherein d1 and d2 are any two desired diameters of the primary particle and d1 is > d2, is less than 250 %.
- 6. Composition according to claim 5, wherein the said deviation is less than 50 %.

- 7. Composition according to one of claims 1 to 6, characterized in that the primary particles of the microgel(B) have an average particle size of 5 to 500 nm.
- 5 8. Composition according to one of claims 1 to 6,characterized in that the primary particles of the microgel(B) have an average particle size of less than 99 nm.
- 9. Composition according to one of claims 1 to 8,
  10 characterized in that the microgels (B) have contents which are insoluble in toluene at 23 °C of at least about 70 wt.%.
- 10. Composition according to one of claims 1 to 9,
   characterized in that the microgels (B) have a swelling
   index in toluene at 23 °C of less than about 80.
  - 11. Composition according to one of claims 1 to 10, characterized in that the microgels (B) have glass transition temperatures of -100 °C to +120 °C.

- 12. Composition according to one of claims 1 to 11, characterized in that the microgel (B) is a crosslinked microgel which is not crosslinked by high-energy radiation.
- 25 13. Composition according to one of claims 1 to 12, characterized in that the microgels (B) have a width of the glass transition range of greater than about 5 °C.
- 14. Composition according to one of claims 1 to 13,30 characterized in that the microgels (B) are obtainable by emulsion polymerization.

- Composition according to one of claims 1 to 14,
   characterized in that the microgel (B) is based on rubber.
- 16. Composition according to one of claims 1 to 15,5 characterized in that the microgel (B) is based on homopolymers or random copolymers.
  - 17. Composition according to one of claims 1 to 16, characterized in that the microgel (B) is modified by functional groups which are reactive towards C=C double bonds.
  - 18. Composition according to one of claims 1 to 17, wherein the non-crosslinkable medium (A) is at least one compound which is chosen from the group which consists of solvents, saturated or aromatic hydrocarbons, polyether oils, naturally occurring and synthetic ester oils, polyetherester oils, phosphoric acid esters, silicon-containing oils, halohydrocarbons and liquid renewable raw materials.
- 20 19. Composition according to one of claims 1 to 18, which comprises 0.1 to 90 wt.% of the microgel (B), based on the total amount of the composition.
- 20. Composition according to one of claims 1 to 19,
  25 characterized in that it comprises 10 to 99.9 wt.% of the non-crosslinkable organic medium (A).
- 21. Composition according to one of claims 1 to 20, characterized in that it additionally comprises fillers and/or additives.

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- 22. Composition according to one of claims 1 to 21, characterized in that it has been prepared by mixing the non-crosslinkable medium (A) and the microgel (B) by means of a homogenizer, a bead mill (stirred ball mill), a triple-roll mill, a single- or multiple-screw extruder, a kneader, an Ultra-Turrax apparatus and/or a dissolver.
- 23. Composition according to claim 22, characterized in that it has been prepared by means of a homogenizer, a bead mill (stirred ball mill), a triple-roll mill or a dissolver.
- 24. Composition according to one of claims 1 to 23, characterized in that it has a viscosity of 2 mPas up to 50,000,000 mPas at a speed of 5 s<sup>-1</sup>, determined with a cone-plate measuring system in accordance with DIN 53018 at 20 °C.
- 25. Composition according to one of claims 1 to 24, characterized in that the microgel (B) has a swelling index in toluene at 23 °C of 1 to 15.
  - 26. Composition according to one of claims 1 to 25, characterized in that the microgels (B) have contents which are insoluble in toluene at 23 °C of at least 95 wt.%.

Composition according to one of claims 1 to 26,
 characterized in that the microgel is not modified with

hydroxyl groups.

28. Composition according to one of claims 1 to 27, characterized in that the microgel is not modified.

- 29. Use of the composition according to one of claims 1 to 28 for incorporation into thermoplastics, rubbers or thermoplastic elastomers.
- 5 30. Use of the composition according to one of claims 1 to 28 for the preparation of microgel-containing polymers.
  - 31. Use according to claim 30 for the preparation of microgelcontaining rubbers.

32. Use according to claim 30 for the preparation of microgelcontaining thermoplastic elastomers.

- Use of the compositions according to one of claims 1 to 28
   for the preparation of lubricants, shaped articles or coatings.
- 34. Use of the composition according to claim 33 for the preparation of lubricating greases or modified lubricating
   oils.
  - 35. Use of the compositions according to one of claims 1 to 28 as a additive for plastics, rubbers, coating compositions or lubricants.

36. Use of microgels as a rheological additive, in particular as a thickener or thixotropic agent, in non-crosslinkable organic media which have a viscosity of less than 30,000 mPas at a temperature of 120 °C.

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- 37. Plastics, rubbers, thermoplastic elastomers, coating compositions or lubricants comprising the compositions according to one of claims 1 to 28.
- 5 38. Process for the preparation of the composition according to one of claims 1 to 28, characterized in that components (A) and (B) are subjected together to the treatment with a homogenizer, a bead mill, a triple-roll mill, a single- or multiple-screw extruder, a kneader and/or a dissolver.

39. Process for the preparation of the composition according to one of claims 1 to 28, characterized in that components (A) and (B) are subjected together to the treatment with a homogenizer, a bead mill, a triple-roll mill and/or a dissolver.